

14 September 1961

MEMORANDUM FOR: Chief, Technical Plans and Development Staff

SUBJECT: Trip Report for 12 and 13 September 1961

STATINTL

1. The undersigned visited [REDACTED] for the purpose of performing final tests on the 2X Reduction Printer, Serial No. ZA-44, and inspection of the second Two Stage Rectifier, which will be completed the end of this month.

2. [REDACTED] TSD, were present on Tuesday, 12 September, during the preliminary testing of the 2X Reduction Printer. The resolution tests on the first day resulted in less than 60 lines per millimeter on axis, which was approximately half of the specified amount in the contract. It is significant to point out that these tests were carried on in extremely adverse environmental conditions. The temperature in the room was in excess of 94 degrees Fahrenheit and 90% RH. [REDACTED] were informed of the results of the tests on Tuesday, 12 September, and it was agreed that a second test would be made early Wednesday morning, 13 September, when the temperature conditions would be more favorable. It was pointed out to the above [REDACTED] personnel that the high temperature and humidity conditions could well have been responsible for the disappointing results during the first test. The lens assembly weighs in excess of eighty pounds of which sixty pounds is the metal mount or encasement. An optical system designed to produce in excess of 100 lines per millimeter could be seriously affected by adverse temperature conditions. The results of the second test confirmed these suspicions. At 0800 hours Wednesday morning, 13 September, the ambient temperature was 74 degrees Fahrenheit and the RH was 50%. The results of this test determined in excess of 114 lines per millimeter on axis, 100+ lines at the mid diagonal point and 90 lines in the corners. These figures are well within the prescribed limits and on the basis of this test acceptance was made. Attached are the results of this test and one copy of the Reference Manual for the Reduction Printer.

3. In conclusion, the undersigned finds it inconceivable that a firm enjoying the reputation of [REDACTED] should continue to manufacture precision photogrammetric instruments in an entirely inadequate environment.

Attachments

DECLASS REVIEW by NIMA/DOD

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NPIC/TP&DS: [REDACTED] jem(3591)